

FIG. 1

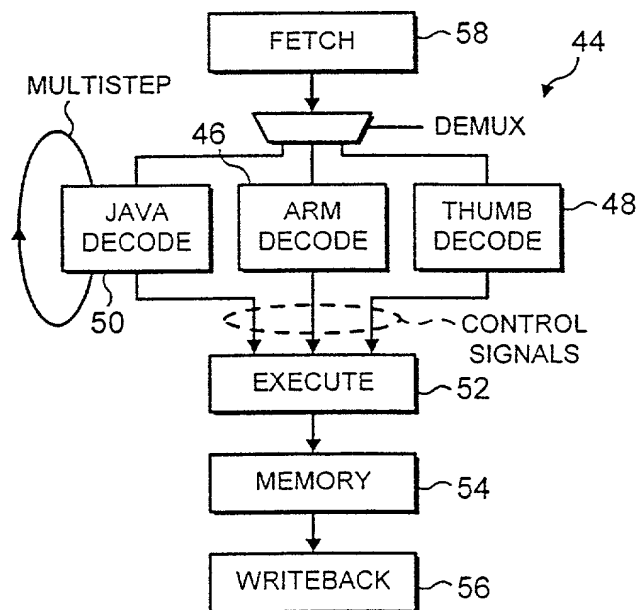


FIG. 2

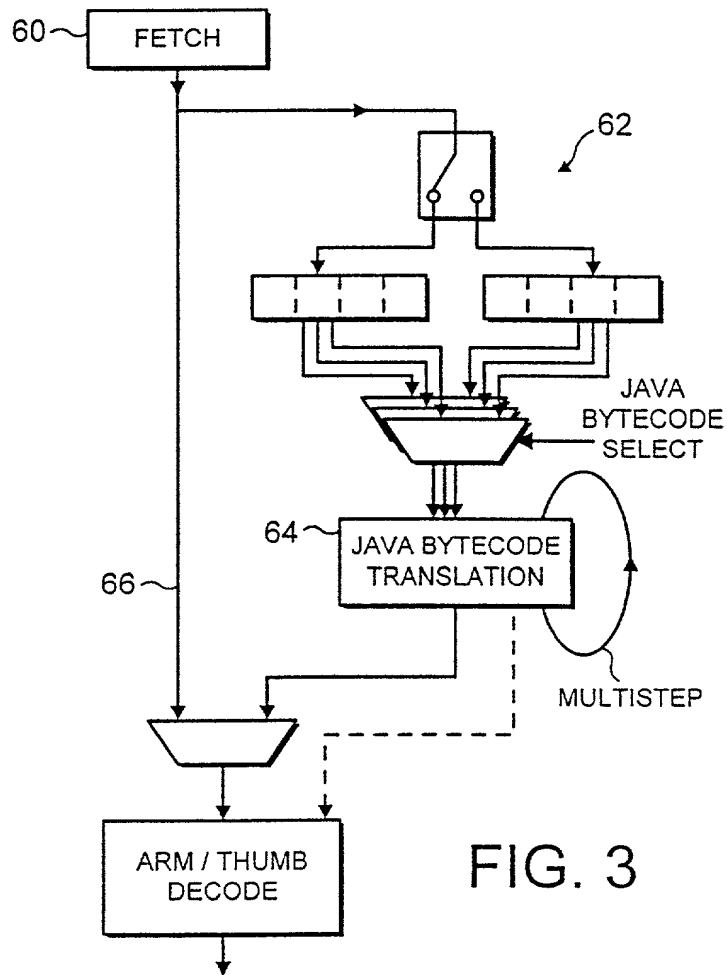


FIG. 3

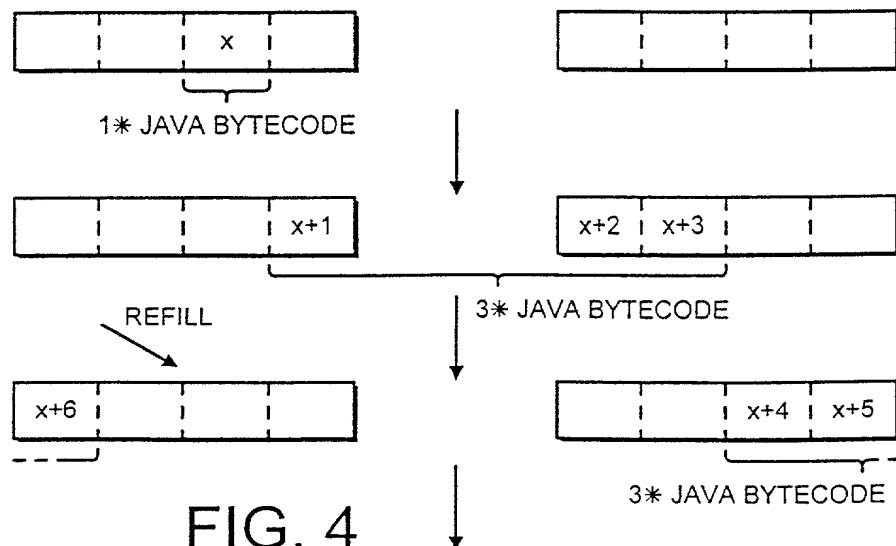


FIG. 4

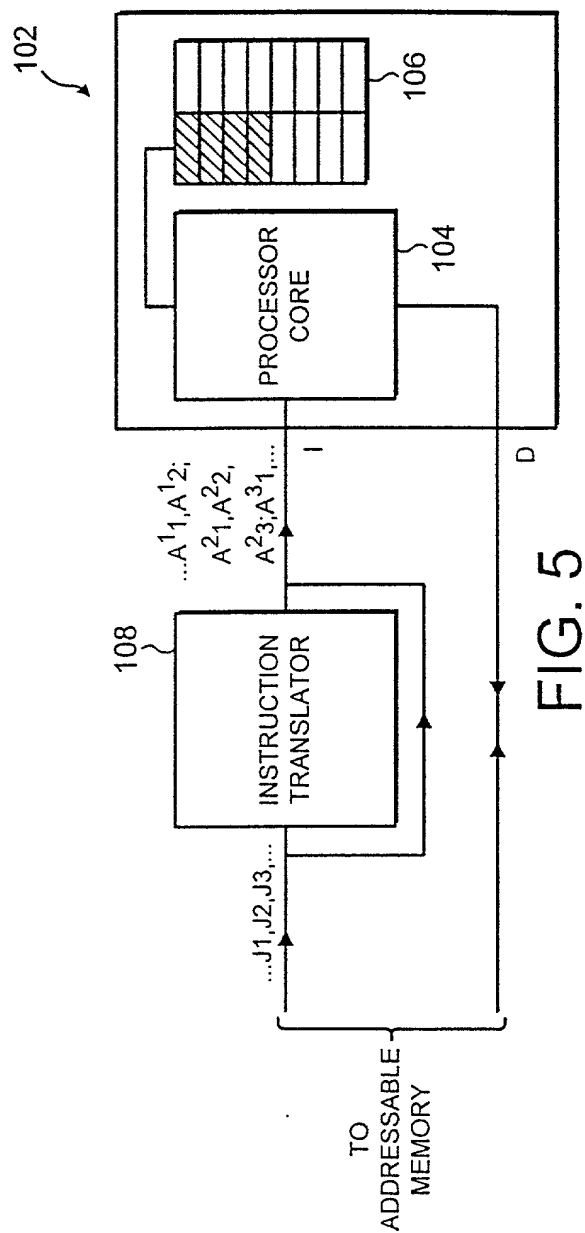


FIG. 5

JAVA INSTRUCTION	iadd (RF=2, RF>0)	iadd (RF=2, RF>1)	iadd (SA=-1)
ARM INSTRUCTION(S)	LDR R0[RStack, #-4]! (POP)	LDR R3[RStack, #-4]! (POP)	ADD R3, R0, R0
STATE	00000	00100	01000
R0	E	SOA TOS	SOA TOS
R1	E	E	E
R2	E	E	E
R3	E	E	(SOA+SOB) TOS

JAVA INSTRUCTION	lload <sup>1</sup> (RF=0, RE>2)	lload <sup>2</sup> (RF=0, RE>2)	lload <sup>2</sup> (RF=0, RE=2)
ARM INSTRUCTIONS	LDR R1[Rvars, #4] LDR R0[Rvars, #0]	STR R3[RStack, #-4] (PUSH)	LDR R3[Rvars, #4] LDR R2[Rvars, #0]
STATE	00000	00100	01000
R0	E	SOC TOS-1	SOC TOS-1
R1	E	SOD TOS	SOD TOS
R2	E	E	SOE TOS-1
R3	(SOA+SOB) TOS	(SOA+SOB) TOS	SOF TOS

FIG. 6

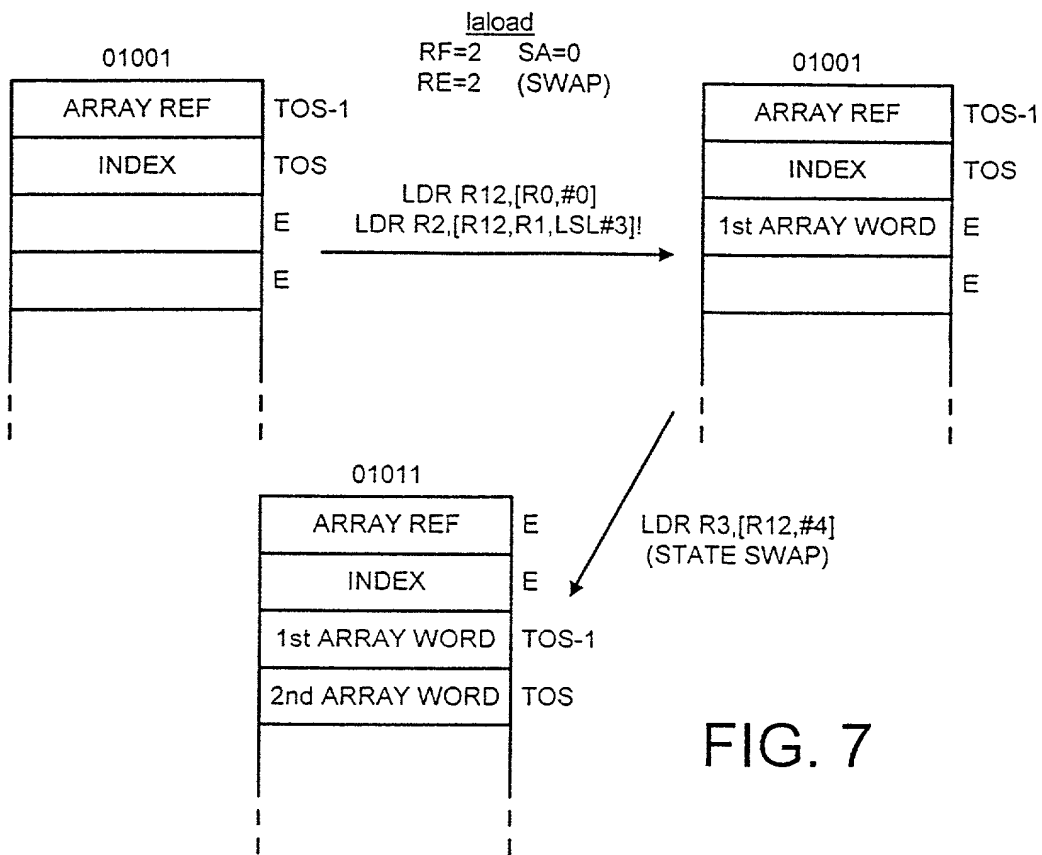


FIG. 7

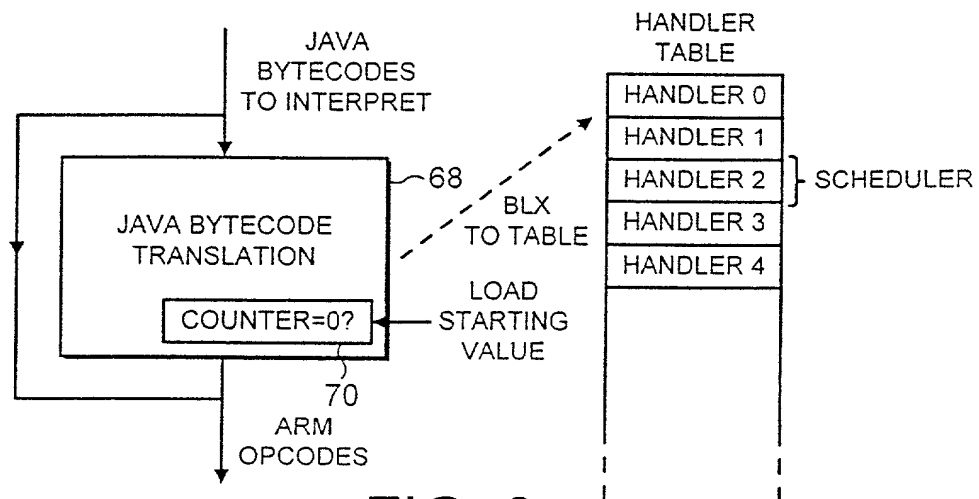


FIG. 9

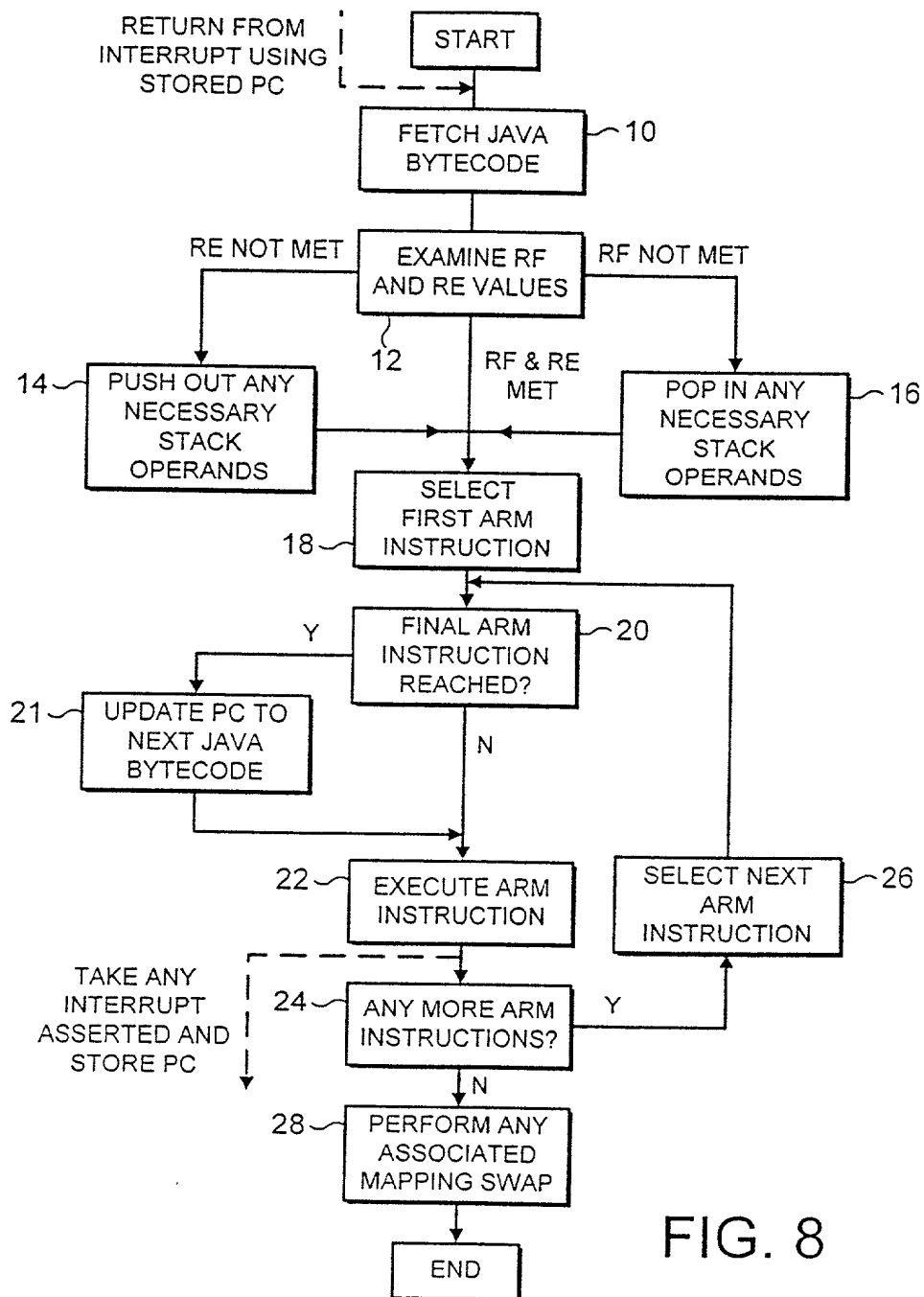


FIG. 8

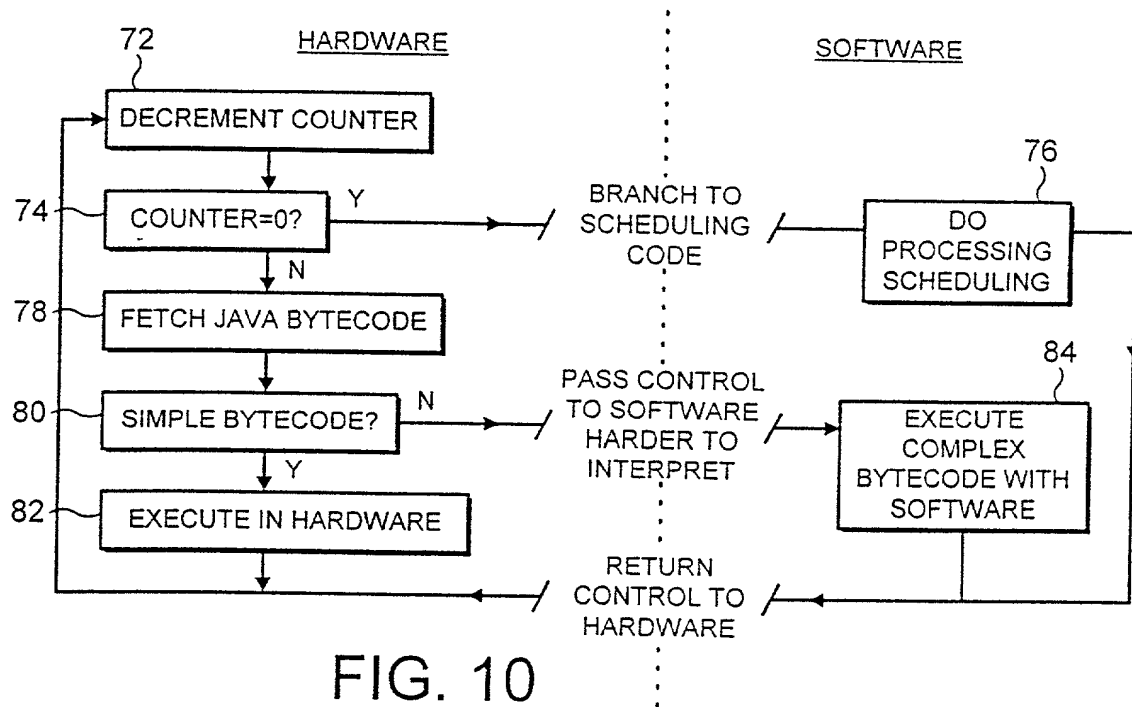


FIG. 10

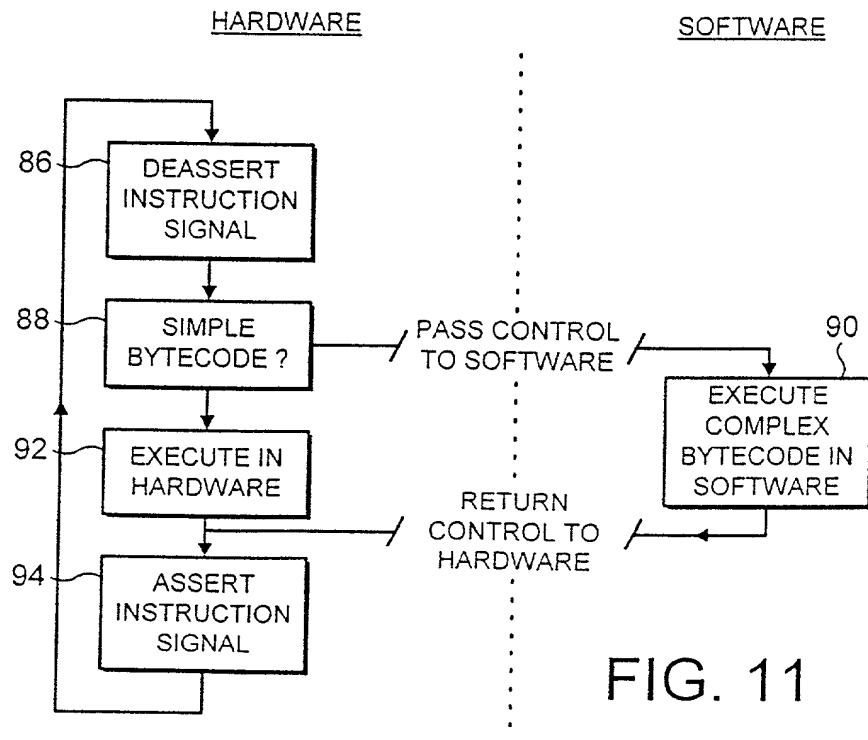


FIG. 11

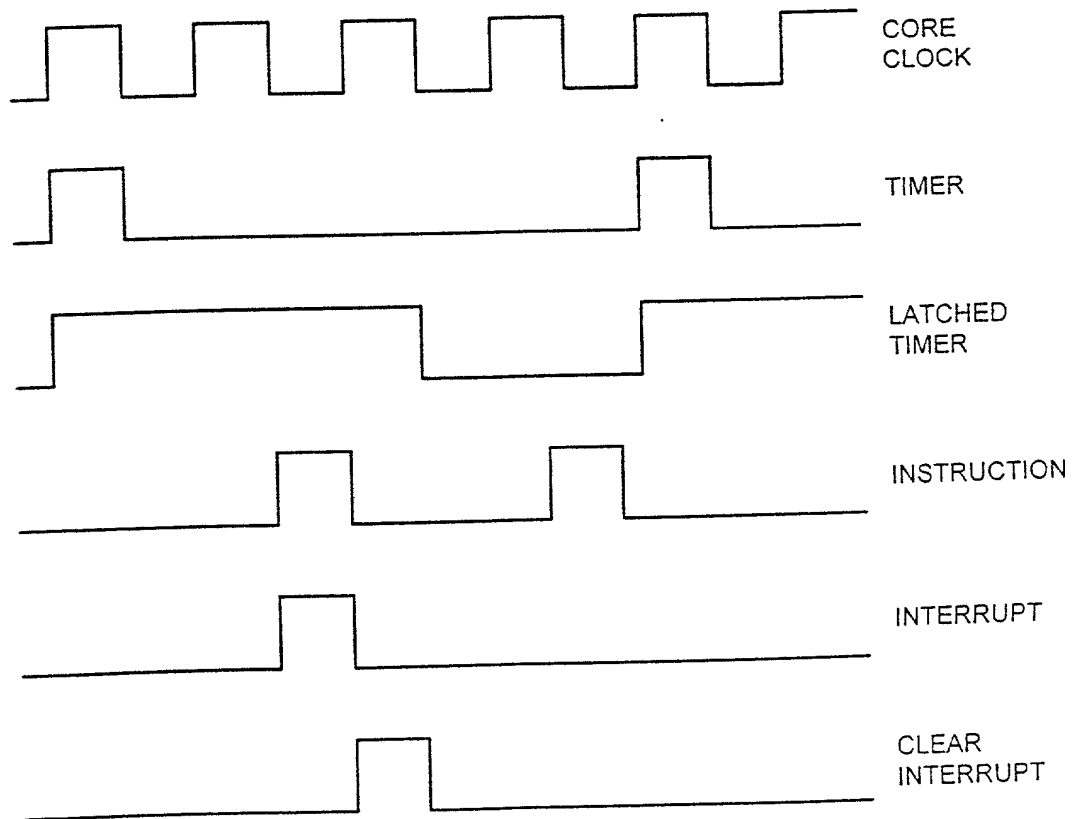
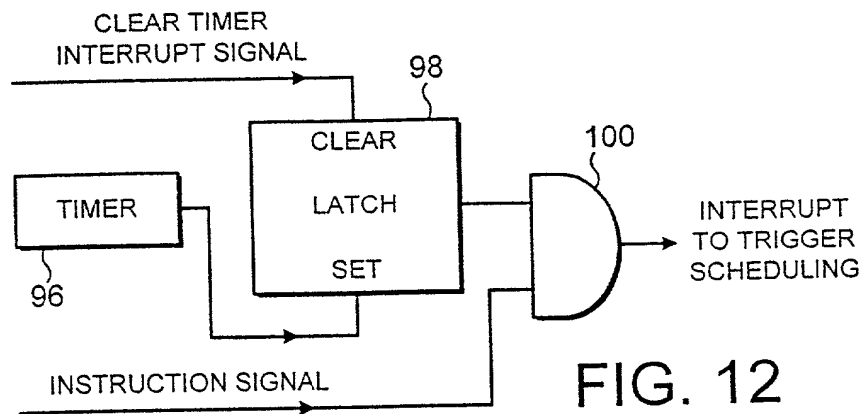


FIG. 13